CAME GROUP

URBACO

ISO 14001

AUTOMATIC BOLLARDS

USER'S MANUAL
BASIC HORIZONTAL OIL-LUBRICATED MICROCOMPRESSOR
Reference: RCMPBH

THIS MANUAL IS INTENDED FOR TECHNICAL STAFF IN CHARGE OF THE INSTALLATION, THE OPERATION AND THE MAINTENANCE OF THIS PRODUCT

CAUTION!

THIS COMPRESSOR IS NOT DELIVERED READY FOR USE.
THE COMPRESSOR COVER PLUG MUST BE REPLACED BY INLET FILTER
(SEE § INSTALLATION)

CAUTION!
ELECTRICAL SHOCK HAZARD
Do not remove cover from box when power is on

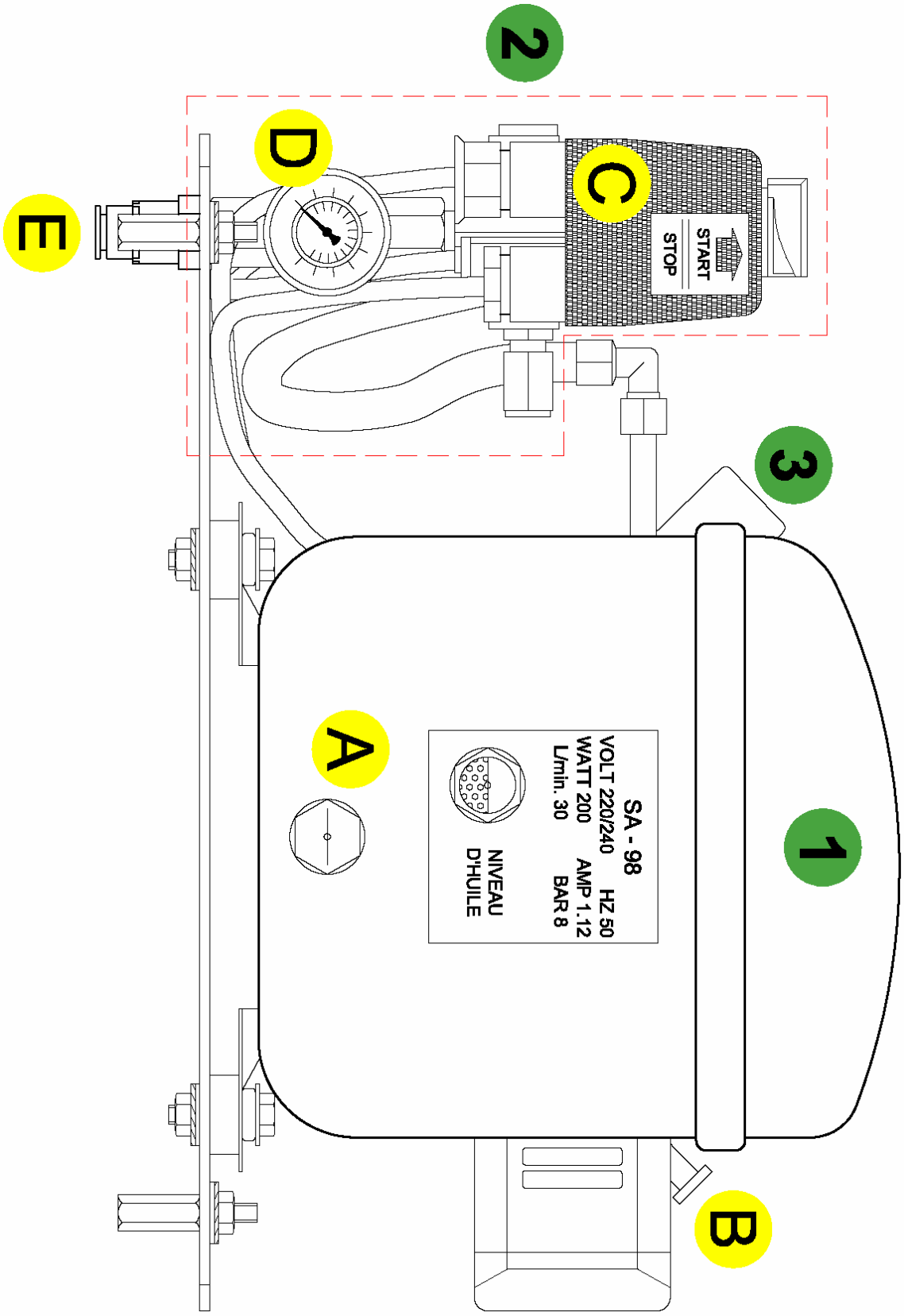
BEWARE OF HOT PARTS!

CAUTION!
KEEP UPRIGHT

OIL SPILLING HAZARD

Pictures are not contractual
NT-RCMPBH(V2-EN) – V2 – 06/06

PRESENTATION OF COMPRESSOR



Keys to the basic horizontal oil-lubricated micro-compressor:

A	Oil level
B	Oil filler plug
C	Pressure switch
D	Pressure gauge
E	Pneumatic connection

SPARE PARTS

1	Complete micro-compressor with oil	1	RCMPBH
3	Inlet (/suction) filter	1	

For spare parts not listed above, please consult Technical Sales Support

DESCRIPTION

GENERAL FEATURES

URBACO's RCMPBH compressor is intended for the supply of compressed air to URBACO's automatic bollards with pneumatic cylinders. Its size and the lightweight materials used make it easy to integrate inside any cabinet.

This compressor presents all control and air circuit elements (pressure gauge, manometer, safety valve, air vent, air filter, etc).

CONDITIONS OF USE

This compressor is intended for non intensive use.

Maximum continuous operation for 15 minutes, followed by 15 minutes' without operation.

SPECIFICATIONS

GENERAL SPECS:

- Micro-compressor, oil-lubricated,
- Horizontal model **(do not turn upside down!),**
- For non intensive use,
- No air reserve,
- No compressor surveillance contact.
- Protection index: IP 44
- Dimensions (L x D x H) : 360 x 250 x 180 mm //14 x 10 x 7 in.
- Weight: 13 kg
- Temperature range for use: 0°C to +50°C // +32°F to +122°F
- Compressor environment:
  - Suitable supply voltage
  - Well sealed ducts
  - Always use in clean, dry and well ventilated area
  - Compressor to be fixed by 4 cross-braces on smooth and stable surface.

ELECTRICAL SPECS:

- Supply voltage: 230V~ 1-phased
- Frequency 50Hz
- Amps: 1.12A
- Motor power: 200W

PNEUMATIC SPECS:

- Flow at 0 bar: 30L/min
- Maximum pressure tolerance: 8 bars (pressure on duty: 5.5 bar)
- Oil type: Mobil RARUS 424
- Oil volume: 480cc

INSTALLATION AND OPERATION

- All micro-compressors **must absolutely be handled horizontally** Do not lay on side to prevent oil spilling and motor deterioration hazard.
- All micro-compressors has been tested and inspected at the factory and supplied in perfect condition. Modifications can be made by qualified technical personnel only.
- Prior to commissioning, ensure that mains voltage and frequency as well as cable ends are suitable for the compressor delivered.
- Fix micro-compressor on the appropriate horizontal stand. Attention! Always maintain compressor upright.
- **Replace cover plug by inlet (/suction) filter (See diagram, N°3).**
- Check oil level (as shown on diagram in A), fill in through port opening (B) up to level mark if necessary.
- Pneumatic connection: (as shown in 3) with a flexible air tube (outer diameter: 10 mm).
- Wiring: (as shown in E), with mandatory 30Ma ground fault circuit interrupter (GFCI) and 5 Amp aM fuse protection (temporised motor drive).
- Turn compressor on and check duty pressure on pressure gauge (D). It must be set on 5.5 bar. If necessary, set pressure by turning pressure switch clockwise or anti-clockwise (as shown in C).

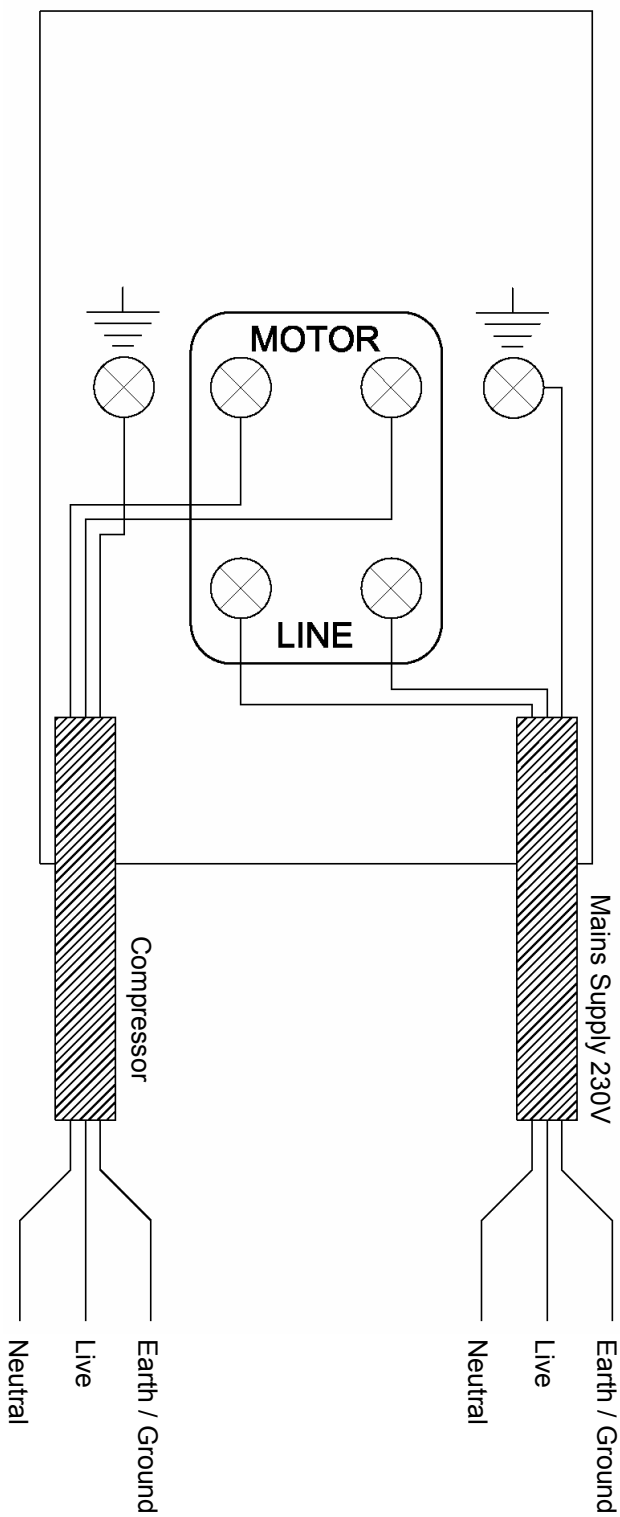
COMPRESSOR MAINTENANCE SCHEDULE

Check-point	Control and maintenance	1st month	2nd month	3rd month	4th month	5th month	6th month	7th month	8th month	9th month	10th month	11th month	12th month
1	Check pressure gauge		X		X		X		X		X		X
2	Check motor fixings												X
3	Check compressor fixings												X
4	Check pressure switch		X		X		X		X		X		X
5	Check air filter		X		X		X		X		X		
6	Replace air filter												X
7	Check oil level		X		X		X		X		X		X
8	Change oil												X
9	Check for potential air leaks		X		X		X		X		X		X

FIRST DEGREE TROUBLE SHOOTER

Fault	**Explanations / Solutions**
The compressor will not start	Check 220V supply Check fuse
The compressor runs but pressure does not rise	Check that anti-return valve is not blocked (which is the most common explanation) Check that inlet (/suction) filter is not blocked. Check for leak on connections The piston may be worn.
Power is on, but the compressor will not start and makes a humming.	Temperature is below 0°C Air vent may be faulty.
Power is on but the compressor will not start or no longer stops when maximum pressure is reached	Check pressure gauge and replace if faulty.

WIRING


MOTOR
LINE
Compressor
Mains Supply 230V
Neutral
Live
Earth / Ground
Neutral
Live
Earth / Ground

INTERNATIONAL SALES DEPARTMENT:

Available Monday through Friday from 8:00 a.m. till 12:30 and from 2:00 p.m. till 6:00 p.m. (local time)

+33 490 480 800

CAME GROUP

URBACO ISO 14001

AUTOMATIC BOLLARDS

CE

Type: RCMPBH

This Edition: June 2006

URBACO S.A. - Z.A. du Couquiou 84320 ENTRAIGUES – FRANCE
International calls: +33 490 480 800 Fax: +33 490 480 088
E-mail: export@urbaco.fr